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## (54) POLYPEPTIDE

(57)Abstract:

NEW MATERIAL: A polypeptide having a sequence wherein 106th Gly is replaced with another amino acid or is deficient in the amino acid sequence from 1st Ser to 155th Leu shown by the formula.

USE: An antitumor agent.

PREPARATION: For example, a gene encoding an amino acid sequence of human tumor necrosis factor(TNF) is cleft with a restriction enzyme to prepare a DNA fragment encoding an amino acid sequence of 1st Ser to 155th Leu shown by the formula, which is subjected to gene conversion in combination with digestion with a restriction enzyme and connection with T4DNA ligase to give a converted material wherein 106th Gly is replaced with another amino acid or is deficient. The converted material is linked to a manifestation vector, Escherichia coli is transformed with the vector and the converted material is cultured to give a polypeptide of human TNF converted material.

Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala Phe Val Val  
10  
Ala Asp Pro Glu Ala Glu Gly Glu Lys Glu Tyr Leu Asp Arg Arg  
20  
Ala Asp Ala Asp Lys Ala Asp Gly Val Ala Lys Asp Asp Asp Glu  
30  
Leu Val Val Pro Ser Glu Gly Leu Tyr Lys Ile Tyr Ser Glu Val  
40  
Leu Phe Lys Gly Glu Gly Cys Pro Ser Thr His Val Leu Leu Tyr  
50  
Ile Glu Ile Ser Arg Ile Phe Val Ser Thr Glu Thr Lys Val Ala  
60  
Leu Leu Ser Ala Ile Lys Ser Pro Cys Glu Arg Glu Thr Pro Glu  
70  
Gly Ala Glu Ala Asp Pro Tyr Tyr Glu Pro Ile Thr Leu Cys Gly  
80  
Val Phe Glu Lys Gly Lys Gly Asp Arg Leu Ser Phe Lys Val Asp  
90  
Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Cys Glu Val Tyr Phe  
100  
Gly Ile Ile Ala Leu  
110  
120  
130  
140  
150

## LEGAL STATUS

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